





PAGER Version 4

10,000

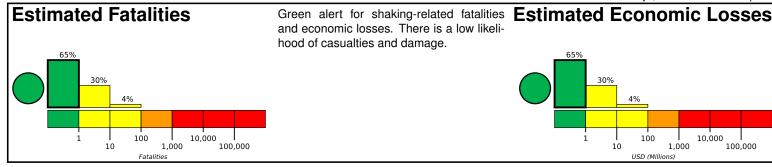
100,000

Created: 3 days, 4 hours after earthquake

1,000

M 4.1, 4 km E of Petrolia, CA

Origin Time: 2023-08-17 21:07:59 UTC (Thu 14:07:59 local) Location: 40.3201° N 124.2563° W Depth: 38.6 km

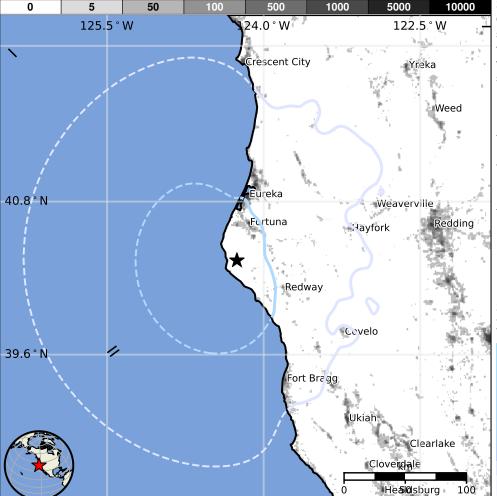


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		643k*	246k	0	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVE	SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

^{*}Estimated exposure only includes population within the map area.

Population Exposure



PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty. https://earthquake.usgs.gov/earthquakes/eventpage/nc73925281#pager

population per 1 sq. km from Landscan **Structures**

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
1993-09-21	290	6.0	VI(47k)	1
1980-11-08	87	7.3	IX(16k)	0
1980-01-24	362	5.8	VII(35k)	1

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org MMI City Population Rio Dell

Ш	Ferndale	1k
Ш	Hydesville	1k
Ш	Humboldt Hill	3k
Ш	Fortuna	12k
Ш	Pine Hills	3k
II	Eureka	27k
II	Arcata	17k
II	Redding	90k
1	Chico	86k
I	Windsor	27k

bold cities appear on map.

(k = x1000)

Event ID: nc73925281